METHOD AND APPARATUS FOR AERIAL SPRAY MARKING OF GROUND SURFACES

ABSTRACT OF THE DISCLOSURE

Aerial spraying is accomplished with a system including a storage tank for holding a substance to be sprayed, a compressed gas cylinder for pressurizing the storage tank, a spray nozzle assembly, and a feed line for delivering pressurized substance from the storage tank to the spray nozzle assembly. The spray nozzle assembly includes a spray nozzle that will discharge a pressurized shot of the substance onto the ground when the spray nozzle assembly is activated. A controller is provided for automatically activating the spray nozzle assembly in accordance with user selected settings. The storage tank, cylinder and spray nozzle assembly are all mounted on a frame, which can be supported from an aircraft. In operation, the system is suspended or otherwise mounted below an aircraft and flown over the target site. At which point, the spray nozzle assembly is selectively activated to spray a pressurized and directed solid stream of substance onto the ground surfaces with precision. The system and method are particularly useful for aerial spray marking applications. In which case, the substance would be a marking substance such as paints, dyes or the like.